

Fig1. Overview of backup

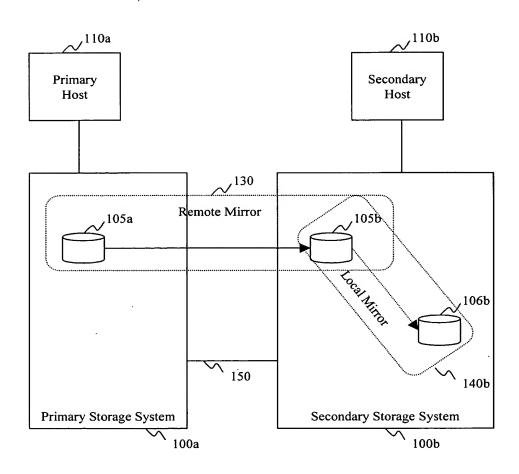
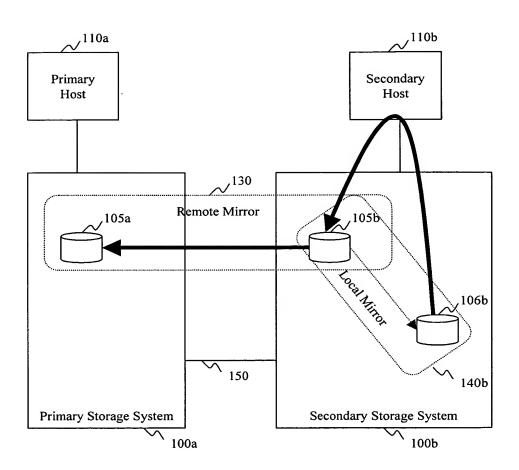


Fig2. Overview of restoring

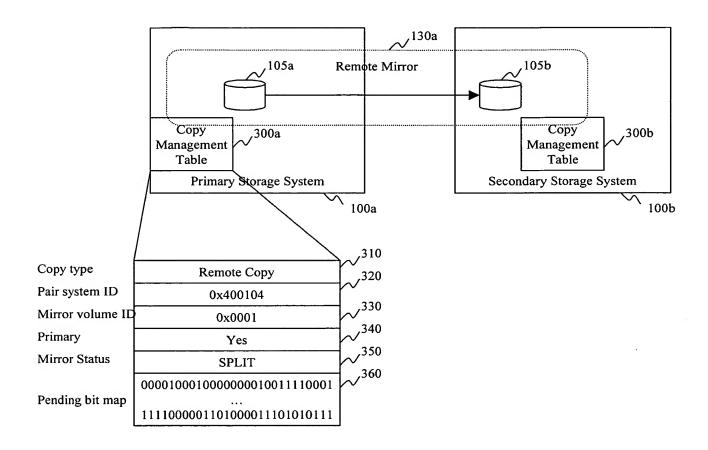


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ttorney Docket Number.: 36992.00088 (HAL 197)

Title: Method and Apparatus for Backup and Restoring Systems

Fig3 Copy Management Table



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Fig 4 Flowchart for taking a backup

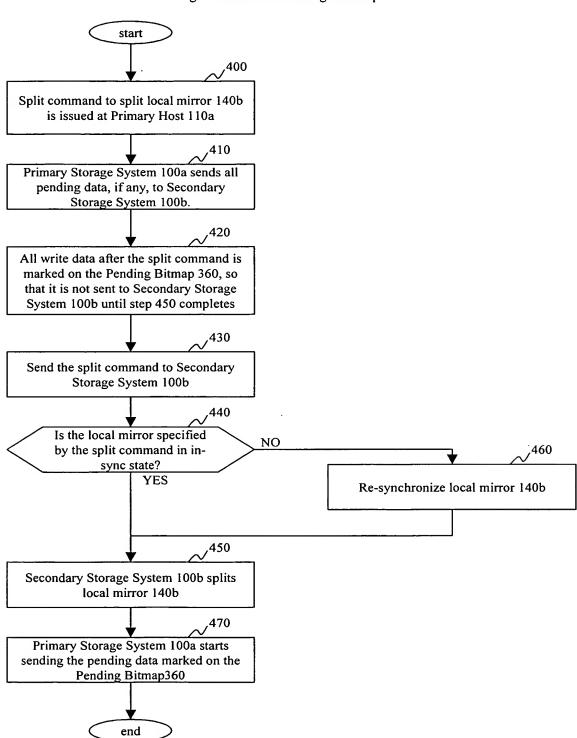
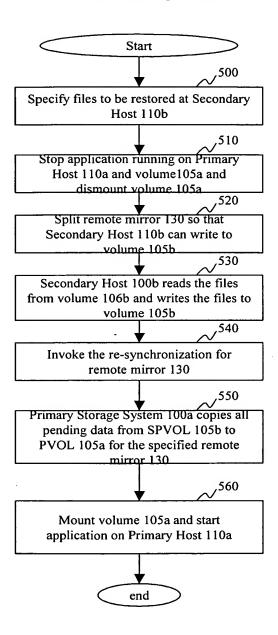


Fig5. Restoring individual files



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Fig6. Restoring the whole volume Start Specify files to be restored at Secondary Host 110b All the files in a volume, but no other files in the volume? 690 Stop application running on Primary Perform restoring described in Fig 5. Host 110a and volume 105a and dismount volume 105a 630 Split remote mirror 130 so that. Secondary Host 110b can write to volume 105b Invoke the re-synchronization for local mirror 140b Secondary Storage System 100b sends all pending data from volume 106b to volume105b for specified local mirror140 Invoke the re-synchronization for remote mirror 130 Primary Storage System 100a copies all pending data from SPVOL 105b to PVOL 105a for the specified remote mirror 130 ,680 Mount volume 105a and start application on Primary Host 110a end